



Product News

BinMaster introduces BinCloud Solar Gateway for Level Sensors in Bins & Silos

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Lincoln (NE), United States -

The BinCloud Solar Gateway offers a solution for installing level sensors on bins or silos in hard-to-reach locations where powering them up is a challenge. The costs associated with hardwiring and hiring electricians can often hinder the path to automation and streamlining operations. With the BinCloud Solar Gateway, users can effortlessly monitor the fill levels of every bin or silo at any remote site, with hourly updates sent directly to the BinCloud software for automated inventory management.



(Picture: BinMaster)

With this, users can enjoy the benefits of automated inventory tracking even for bins situated in off-grid, remote areas. The BinCloud Solar Gateway efficiently provides the necessary power to operate two sensors and transmit data to the cloud once every hour.

This system seamlessly integrates with non-contact radar level sensors or any 4-20 mA loop-powered sensors, ensuring compatibility and flexibility.

Installation of the BinCloud Solar Gateway is simple and doesn't increase energy expenses. The gateway is powered by a 50 W solar panel, which charges a Lithium battery pack located within the BinCloud Gateway. This battery is capable of sustaining two sensors and the gateway itself, responsible for data collection and transmission to the cloud.

Mounting the solar panel and gateway is straightforward and easily affix to a wall or hand railing near the bin. In cases where no mounting structure is available nearby, an optional pole is securely bolted to the ground.

The battery boasts an impressive 48-hour lifespan even without direct sunlight, ensuring continuous functionality as the level sensors take readings and the gateway transmits data once every hour.

With the BinCloud Solar Gateway, establishing connections between every bin and the BinCloud inventory system has never been more convenient. The BinCloud software, a user-friendly yet feature-rich graphical inventory management tool, allows to gain comprehensive insights into the status of all bins, tanks, and silos holding solids or liquids at every location.

Industries such as cement plants, mining operations, and agricultural cooperatives or large farms often contend with bins located at considerable distances from power sources. In such scenarios, the BinCloud Solar Gateway serves as the essential component to complete every inventory management solution.